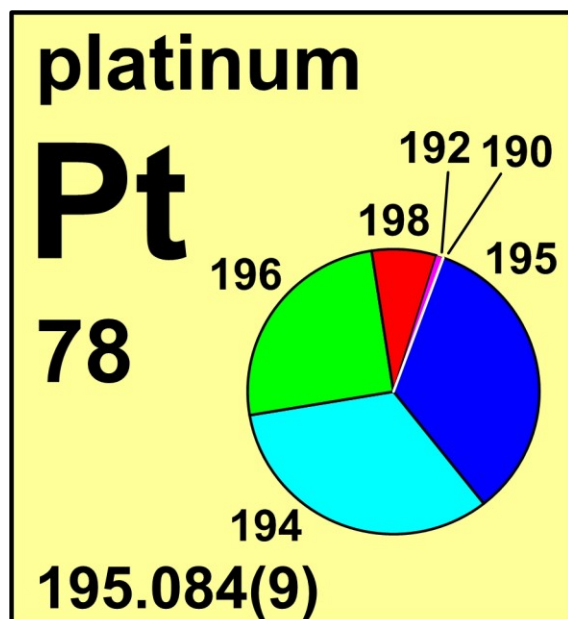





platinum

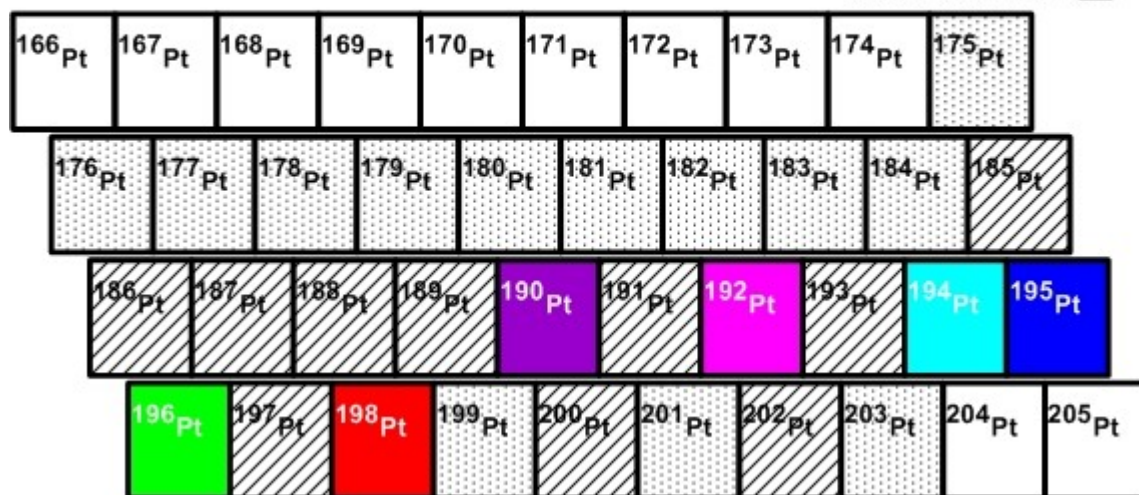


Stable isotope	Atomic mass*	Mole fraction
¹⁹⁰ Pt	189.959 932	0.000 14
¹⁹² Pt	191.961 038	0.007 82
¹⁹⁴ Pt	193.962 6803	0.329 67
¹⁹⁵ Pt	194.964 7911	0.338 32
¹⁹⁶ Pt	195.964 9515	0.252 42
¹⁹⁸ Pt	197.967 893	0.071 63

* Atomic mass given in unified atomic mass units, u.

Half-life of radioactive isotope

Less than 1 second 
Between 1 second and 1 hour 
Greater than 1 hour 



Important applications of stable and/or radioactive isotopes

Isotopes in medicine

- 1) ^{195m}Pt is used for pharmacokinetic studies of platinum based anti-tumour agents, in cancer diagnosis and cancer therapy.
- 2) ^{195m}Pt can be produced from the stable isotopes ¹⁹²Os or ¹⁹⁵Pt.

Isotopes in geology and planetary sciences

- 1) The continuous decay of ^{190}Pt to ^{186}Os over time can be used for dating of geological samples and iron meteorites.